CONTENTS

VOLUME 8 NUMBER 1 **JANUARY/FEBRUARY 1991**

A DECREASED BRAINSTEM CONTENT OF GABA MEDIATES HYPERINSULINEMIA IN OBESE ZUCKER RATS
F. Squadrito, D. Cucinotta, V. Arcoraci, G. Calapai, G. M. Campo, A. L. Buemi, M. Ioculano, G. Squadrito and A. P. Caputi 1

NOISE ANALYSIS OF CURRENTS ACTIVATED BY EXCITATORY AMINO ACIDS IN FRESHLY ISOLATED NEURONES FROM THE OLFACTORY BULB OF THE RAT
I. Jacobson 11

MONOCLONAL ANTIBODY SPECIFIC FOR HISTO-BLOOD GROUP ANTIGENS H (TYPES 2 AND 4) INTERFERES WITH LONG-TERM MEMORY FORMATION IN RATS
R. Jork, K.-H. Smalla, U. Karsten, G. Grecksch, H.-L. Rüthrich and H. Matthies 21

EVOKED FIELD RESPONSES AND AWAKE IMMOBILITY-RELATED NON-RHYTHMICAL EEG IN HIPPOCAMPUS OF YOUNG AND AGED RATS
A. Valjakka, E. Koivisto and P. Riekkinen 29

DYNORPHIN B IN THE MOUSE HIPPOCAMPUS: AN ULTRASTRUCTURAL SURVEY
J. H. H. M. van Daal, J. A. Valentijn, B. G. Jenks and J. H. F. van Abeelen 37

GANGLIOSIDES MODULATE MYELIN PROTEIN PHOSPHORYLATION IN RAT SCIATIC NERVE
L. N. Berti-Mattera, R. Bianchi, M. G. Fiori and J. Eichberg 41

IDENTIFICATION OF A CALMODULIN-BINDING, B-50-IMMUNOREACTIVE C-KINASE SUBSTRATE (BICKS) IN BOVINE BRAIN
P. J. Coggins, J. Stanisz, A. Nagy and H. Zwiers 49

CENTRAL EFFECTS OF NITRENDIPINE ON THE MONOAMINERGIC NEURONS AND CALCIUM UPTAKE IN THE BRAIN REGIONS OF SPONTANEOUSLY HYPERTENSIVE RATS
H. Shimura, Y. Watanabe and T. Shibuya 57

VOLUME 8 NUMBER 2 **MARCH/APRIL 1991**

ALTERATIONS IN CHOLINERGIC MECHANISMS INDUCED BY DENERVATION OF THE RAT VAS DEFERENS
H. F. Miranda, W. W. Wolstenholme, G. A. Moreu, P. A. Santiago, N. Cuevas and D. Bustamante 67

SIDEDNESS AND PERMEABILITY OF SARCOLEMMAL MEMBRANES ISOLATED FROM NORMAL AND DENERVATED RAT SKELETAL MUSCLE
R. C. Ianello and P. L. Jeffrey 77

ANALYSIS OF EPSP FLUCTUATIONS INDICATES INCREASED PRESYNAPTIC RELEASE DURING LONG-TERM POTENTIATION IN AREA CA1 OF HIPPOCAMPAL SLICES
L. L. Voronin, U. Kuhnt and A. G. Gusev 87

DIFFERENTIAL CONTROL OF SYMPATHETIC NERVE ACTIVITIES DURING COMBINED ASPHYXIA AND PARAMEDIAN RETICULAR NUCLEUS STIMULATION IN CATS
C. T. Yen, Y. F. Lin, J. C. Hwang, C. K. Su and C. Y. Chai 95

BRAIN ACETYLCHOLINE IS INVOLVED IN THE ACTH-INDUCED BEHAVIORAL SYNDROME IN RATS
R. Poggioli, A. V. Vergoni, D. Giuliani, D. Marrama, E. Rasori and A. Bertolini 103

HYPOPHYSECTOMY ALTERS HEART RATE AND CATECHOLAMINE RESPONSES TO RESTRAINT STRESS AND ISOPROTERENOL
B. A. Barron, K. Pierzchala, L. Marson and G. R. Van Loon 111

EFFECT OF ACUTE AND CHRONIC MORPHINE ON OXYTOCIN CONCENTRATION IN DIFFERENT BRAIN AREAS AND PLASMA OF MALE RATS
M. R. Melis, R. Stancampiano and A. Argiolas 119

DENSITY, DISTRIBUTION AND PREVALENCE OF LEWY BODIES IN THE ELDERLY: INFLUENCE OF NEUROPSYCHIATRIC BIAS WITH EPIDEMIOLOGICAL AND DIAGNOSTIC IMPLICATIONS
P. E. M. Smith, D. Irving and R. H. Perry 127

VOLUME 8 NUMBER 3 **MAY/JUNE 1991**

MODULATION OF EXCITATORY AMINO ACID RECEPTORS BY INDOLPYRUVIC ACID
V. Bruno, P. L. Canonico, E. Aronica, F. Nicoletti and U. Scapagnini 137

CARBACHOL AND [D-Trp^8]-SOMATOSTATIN INTERACT TO REGULATE HIPPOCAMPAL PHOSPHOINOSITIDE METABOLISM
L. M. Shaffer and L. A. Dokas 147

A TWO STAGE CORRECTION OF LIMB TRAJECTORY TO AVOID OBSTACLES DURING STEPPING
A. Patla, A. Beuter and S. Prentice 153

THE HISTAMINE-RELEASER, COMPOUND 48/80, INCREASES ORNITHINE DECARBOXYLASE ACTIVITY IN NEONATAL RAT BRAIN
J. Rodriguez, A. Toledo, R. Rodriguez, J. Sabria and I. Blanco 161

FIRST EVIDENCE OF A POSSIBLE ROLE OF THE RETICULAR THALAMIC NUCLEUS IN WORKING MEMORY IN RATS
M. M'Harzi, M. Collery and J. Delacour 167

THE Ca^{2+} ANTAGONIST NIMODIPINE AND RECOVERY OF FUNCTION FOLLOWING PERIPHERAL NERVE DAMAGE IN THE RAT
W. H. Gispen, E. Sporal-Özakat, E. Duckers and P. M. Edwards 175

THE ACTIVITY OF THE HIGH-M_r MULTICATALYTIC PROTEASE IN NORMAL BRAIN AND BRAIN FROM ALZHEIMER'S DISEASE PATIENTS
J. R. McDermott and A. M. Gibson 185

N^1-ACETYLSPERMIDINE ACCUMULATION IN THE RAT BRAIN FOLLOWING INTRACEREBROVENTRICULAR ADMINISTRATION OF MDL72527: A POLYAMINE OXIDASE INHIBITOR
R. Ientile, C. Fabiano and G. R. Trimarchi 191